

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1994:437936 CAPLUS  
 DN 121:37936  
 ED Entered STN: 23 Jul 1994  
 TI Coatings for high-speed web-offset printing paper  
 IN Suzuki, Yukihiro  
 PA Mitsubishi Paper Mills Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM D21H019-38  
 ICS D21H019-80  
 CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06065897	A2	19940308	JP 1992-219137	19920818 <--
PRAI	JP 1992-219137		19920818		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 06065897	ICM	D21H019-38
	ICS	D21H019-80
	IPCI	D21H0019-38 [ICM,5]; D21H0019-80 [ICS,5]; D21H0019-00 [ICS,5,C*]

AB The title coatings comprise a primer layer and a top layer wherein the primer layer is formulated from pigments containing wet-ground CaCO<sub>3</sub> with average particle size 1.0-4.0 µm, and binders containing specified cationic starch for acquiring a coated surface with good pick strength. A primer was formulated from quaternary alkylammonium group-containing cationic starch (N content 0.4%; B-type viscometer 20%-solution viscosity at 50° 33 cP) 22.5, and wet-ground CaCO<sub>3</sub> (size 2.8 µm) 100, and an over coating was formulated from Ultrawhite 90 30, Ultracoat 40, Carbital 90 30, polyacrylic acid-type dispersant 0.1, phosphated starch 4, SBR latex 12, Ca stearate 0.3, and NaOH 0.15 part.

ST web offset printing paper coating multilayer; primer coating web offset printing paper; calcium carbonate pigment coating offset paper

IT Paper  
 (lithog., priming of multilayer-coated, with composition containing cationic starch and calcium carbonate for good pick strength)

IT Coating materials  
 (primers, for web-offset printing paper, containing cationic starch and calcium carbonate for good pick strength)

IT 471-34-1, Calcium carbonate, uses

RL: USES (Uses)

(primer containing cationic starch and wet-ground, for multilayer-coated paper for good pick strength)

IT 9005-25-8D, Starch, cationic derivs.

RL: USES (Uses)

(primer containing wet-ground calcium carbonate and, for multilayer-coated paper for good pick strength)

RN 471-34-1

RN 9005-25-8D

L4 ANSWER 2 OF 3 WPIX COPYRIGHT 2006 THE THOMSON CORP on STN

AN 1994-115678 [14] WPIX

DNC C1994-053739

TI Offset printing coated paper having good blister resistance - has coating layer comprising pigments containing wet crushed calcium carbonate and binders containing aqueous solution of cationic starch on base paper.

DC F09  
 PA (MITY) MITSUBISHI PAPER MILLS LTD  
 CYC 1  
 PI JP 06065897 A 19940308 (199414)\* 7 D21H019-38 <--  
 ADT JP 06065897 A JP 1992-219137 19920818  
 PRAI JP 1992-219137 19920818  
 IC ICM D21H019-38  
 ICS D21H019-80  
 AB JP 06065897 A UPAB: 19940524  
 In offset printing coated paper comprising base paper with at least two  
 coat layers per side formed on the base paper, a coating compsn.,  
 constituting the coat layer nearest to the base paper, contains pigments  
 containing CaCO<sub>3</sub> subjected to wet crushing and having average particle size of  
 1.0 to 4.0 microns and binders containing an aqueous solution of cationic  
 starch such  
 that  $(F)\ln(\eta)$  is 0.63-1.28 (where F is ratio of the cationic starch  
 w.r.t. the solid content of the coating compsn.; and  $\ln(\eta)$  is natural  
 logarithm of B-type viscosity of the aqueous solution of cationic starch at  
 concentration of 20% and 50 deg.C).  
 The aqueous solution of cationic starch contains at least 0.15% N and has  
 B-type viscosity of 30 to 1000 CPs.  
 ADVANTAGE - The coated paper has good offset printability, picking  
 resistance and blister resistance.  
 Dwg.0/1  
 FS CPI  
 FA AB  
 MC CPI: F05-A06B  
  
 L4 ANSWER 3 OF 3 JAPIO (C) 2006 JPO on STN  
 AN 1994-065897 JAPIO  
 TI COATED PAPER FOR OFFSET PRINTING  
 IN SUZUKI YUKIHIRO  
 PA MITSUBISHI PAPER MILLS LTD  
 PI JP 06065897 A 19940308 Heisei  
 AI JP 1992-219137 (JP04219137 Heisei) 19920818  
 PRAI JP 1992-219137 19920818  
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1994  
 IC ICM D21H019-38  
 ICS D21H019-80  
 AB PURPOSE: To provide a coated paper for offset printing having high pick  
 resistance durable to high-speed web offset printing and excellent  
 operability.  
 CONSTITUTION: This coated paper for offset printing has  $\geq 2$  coating layers  
 per one surface of the base paper. The coating composition to be used in  
 the primer coating layer closest to the base paper contains wet-pulverized  
 calcium carbonate having an average particle diameter of 1.0-4.0 $\mu$ m as a  
 pigment component and contains an aqueous solution of a cationic starch  
 satisfying a specific condition as an adhesive component.  
 COPYRIGHT: (C)1994,JPO&Japio

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